



```
user@user:~/Desktop/Ivan_Kucherov_RI-p51/Lab6_RI-p51$ gcc -c main.c
user@user:~/Desktop/Ivan_Kucherov_RI-p51/Lab6_RI-p51$ gcc -c lib.c
user@user:~/Desktop/Ivan_Kucherov_RI-p51/Lab6_RI-p51$ gcc -o main main.o lib.o -
lm
user@user:~/Desktop/Ivan_Kucherov_RI-p51/Lab6_RI-p51$ ./main
Enter input filename: input.txt

--- TABLE OF VALUES (first 10 rows) ---
1 | x =      0.000000 | f(x) = 640000.000000
2 | x =      0.500000 | f(x) = 706439.257812
3 | x =      1.000000 | f(x) = 777922.250000
4 | x =      1.500000 | f(x) = 854699.148438
5 | x =      2.000000 | f(x) = 937028.000000
6 | x =      2.500000 | f(x) = 1025175.664062
7 | x =      3.000000 | f(x) = 1119418.750000
8 | x =      3.500000 | f(x) = 1220044.554688
9 | x =      4.000000 | f(x) = 1327352.000000
10 | x =      4.500000 | f(x) = 1441652.570312

Enter output text filename: output.txt
Text file saved.
Enter output binary filename: output.bin
Binary file saved.
```

Done.

user@user:~/Desktop/Ivan\_Kucherov\_RI-p51/Lab6\_RI-p51\$ cat output.txt

X1 = 0.000000  
 X2 = 10.000000  
 N = 21  
 delta = 0.500000

i	x	f(x)
1	0.000000	640000.000000
2	0.500000	706439.257812
3	1.000000	777922.250000
4	1.500000	854699.148438
5	2.000000	937028.000000
6	2.500000	1025175.664062
7	3.000000	1119418.750000
8	3.500000	1220044.554688
9	4.000000	1327352.000000
10	4.500000	1441652.570312
11	5.000000	1563271.250000
12	5.500000	1692547.460938
13	6.000000	1829836.000000
14	6.500000	1975507.976562
15	7.000000	2129951.750000

4	1.500000	854699.148438
5	2.000000	937028.000000
6	2.500000	1025175.664062
7	3.000000	1119418.750000
8	3.500000	1220044.554688
9	4.000000	1327352.000000
10	4.500000	1441652.570312
11	5.000000	1563271.250000
12	5.500000	1692547.460938
13	6.000000	1829836.000000
14	6.500000	1975507.976562
15	7.000000	2129951.750000
16	7.500000	2293573.867188
17	8.000000	2466800.000000
18	8.500000	2650075.882812
19	9.000000	2843868.250000
20	9.500000	3048665.773438
21	10.000000	3264980.000000

RI-p51

Ivan Kucherov

user@user:~/Desktop/Ivan\_Kucherov\_RI-p51/Lab6\_RI-p51\$ ls -lh output.bin

-rwxrwx--- 1 user user 340 Nov 24 10:48 output.bin

user@user:~/Desktop/Ivan\_Kucherov\_RI-p51/Lab6\_RI-p51\$ ls -l

user@user: ~/Desktop/Ivan\_Kucherov\_RI-p51

Q

≡

x

```
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git add .
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
(use "git restore --staged <file>..." to unstage)
  new file:  Lab6_RI-p51/lib.c
  new file:  Lab6_RI-p51/lib.h
  new file:  Lab6_RI-p51/lib.h.gch
  new file:  Lab6_RI-p51/lib.o
  new file:  Lab6_RI-p51/main
  modified:  Lab6_RI-p51/main.c
  deleted:   Lab6_RI-p51/main.exe
  new file:  Lab6_RI-p51/main.o
  renamed:   Lab6_RI-p51/out_table.bin -> Lab6_RI-p51/output.bin
  renamed:   Lab6_RI-p51/out_table.txt -> Lab6_RI-p51/output.txt
```

```
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git commit -m "Lab6 Done"
[main 267567d] Lab6 Done
10 files changed, 140 insertions(+), 139 deletions(-)
create mode 100755 Lab6_RI-p51/lib.c
create mode 100755 Lab6_RI-p51/lib.h
create mode 100644 Lab6_RI-p51/lib.h.gch
```

```
10 files changed, 140 insertions(+), 139 deletions(-)
create mode 100755 Lab6_RI-p51/lib.c
create mode 100755 Lab6_RI-p51/lib.h
create mode 100644 Lab6_RI-p51/lib.h.gch
create mode 100644 Lab6_RI-p51/lib.o
create mode 100755 Lab6_RI-p51/main
delete mode 100755 Lab6_RI-p51/main.exe
create mode 100644 Lab6_RI-p51/main.o
rename Lab6_RI-p51/{out_table.bin => output.bin} (100%)
rename Lab6_RI-p51/{out_table.txt => output.txt} (96%)
mode change 100755 => 100644
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git push -u origin
Username for 'https://github.com': Krasapan
Password for 'https://Krasapan@github.com':
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Compressing objects: 100% (11/11), done.
Writing objects: 100% (11/11), 267.88 KiB | 3.57 MiB/s, done.
Total 11 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 2 local objects.
To https://github.com/Krasapan/Ivan-Kucherov-s-KPI-Informatics-Repository.git
  7316215..267567d  main -> main
branch 'main' set up to track 'origin/main'.
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ █
```

Open + Makefile ~/Desktop/Ivan\_Kucherov\_RI-p51/Lab6\_RI-p51

```
main: main.o lib.o
    gcc -o binary.exe main.o lib.o -lm
main.o:main.c
    gcc -c main.c
lib.o:lib.c
    gcc -c lib.c
clean:
    rm -f *.o main
```

```
user@user:~/Desktop/Ivan_Kucherov_RI-p51/Lab6_RI-p51$ make
gcc -c main.c
gcc -c lib.c
gcc -o binary.exe main.o lib.o -lm
user@user:~/Desktop/Ivan_Kucherov_RI-p51/Lab6_RI-p51$ ./main
Enter input filename: input.txt
```

